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1 Inferring Internet denial-of-service activity

David Moore, Colleen Shannon, Douglas J. Brown, Geoffrey M. Voelker, Stefan Savage

May 2006 **ACM Transactions on Computer Systems (TOCS)**, Volume 24 Issue 2

Publisher: ACM Press

Full text available: pdf(790.20 KB) Additional Information: full citation, abstract, references, index terms

In this article, we seek to address a simple question: "How prevalent are denial-of-service attacks in the Internet?" Our motivation is to quantitatively understand the nature of the current threat as well as to enable longer-term analyses of trends and recurring patterns of attacks. We present a new technique, called "backscatter analysis," that provides a conservative estimate of *worldwide* denial-of-service activity. We use this approach on 22 traces (each coveri ...

Keywords: Backscatter, denial-of-service, network measurement, network security

2 SOS: secure overlay services

Angelos D. Keromytis, Vishal Misra, Dan Rubenstein

August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4

Publisher: ACM Press

Full text available: pdf(210.90 KB) Additional Information: full citation, abstract, references, citings, index terms

Denial of service (DoS) attacks continue to threaten the reliability of networking systems. Previous approaches for protecting networks from DoS attacks are reactive in that they wait for an attack to be launched before taking appropriate measures to protect the network. This leaves the door open for other attacks that use more sophisticated methods to mask their traffic.We propose an architecture called Secure Overlay Services (SOS) that proactively prevents DoS attacks, geared toward supportin ...

Keywords: denial of service attacks, network security, overlay networks

3 Advertising and Security for E-Commerence: Protecting electronic commerce from distributed denial-of-service attacks

José Brustoloni

May 2002 **Proceedings of the 11th international conference on World Wide Web WWW '02**
Publisher: ACM Press

Full text available: pdf(133.78 KB) Additional Information: full citation, abstract, references, citings, index terms

It is widely recognized that distributed denial-of-service (DDoS) attacks can disrupt electronic commerce and cause large revenue losses. However, effective defenses continue to be mostly unavailable. We describe and evaluate VIPnet, a novel value-added network service for protecting e-commerce and other transaction-based sites from DDoS attacks. In VIPnet, e-merchants pay Internet Service Providers (ISPs) to carry the packets of the e-merchants' best clients (called VIPs) in a privileged class ...

Keywords: denial of service, electronic commerce, quality of service

4 Session 2: secure Web services: Designing a distributed access control processor for network services on the Web
Reiner Kraft
November 2002 **Proceedings of the 2002 ACM workshop on XML security XMLSEC '02**
Publisher: ACM Press

Full text available: pdf(301.14 KB) Additional Information: full citation, abstract, references, citings, index terms

The service oriented architecture (SOA) is gaining more momentum with the advent of network services on the Web. A programmable and machine accessible Web is the vision of many,and might represent a step towards the semantic Web. However, security is a crucial requirement for the serious usage and adoption of the Web services technology. This paper enumerates design goals for an access control model for Web services. It then introduces an abstract general model for Web services components, along ...

Keywords: Web services, XML, access control, security

5 Reviewed articles: On the robustness of router-based denial-of-service (DoS) defense systems
Ying Xu, Roch Guérin
July 2005 **ACM SIGCOMM Computer Communication Review**, Volume 35 Issue 3
Publisher: ACM Press
Full text available: pdf(441.29 KB) Additional Information: full citation, abstract, references, index terms

This paper focuses on "router-based" defense mechanisms, and whether they can provide effective solutions to network Denial-of-Service (DoS) attacks. Router-based defenses operate either on traffic aggregates or on individual flows, and have been shown, either alone or in combination with other schemes, e.g., traceback, to be reasonably effective against certain types of basic attacks. Those attacks are, however, relatively brute-force, and usually accompanied by either significant increases in ...

Keywords: denial-of-service, router-based defense

6 IDMaps: a global internet host distance estimation service
Paul Francis, Sugih Jamin, Cheng Jin, Yixin Jin, Danny Raz, Yuval Shavitt, Lixia Zhang
October 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 5
Publisher: IEEE Press

Full text available: pdf(267.64 KB) Additional Information: full citation, abstract, references, citings, index

terms

There is an increasing need to quickly and efficiently learn network distances, in terms of metrics such as latency or bandwidth, between Internet hosts. For example, Internet content providers often place data and server mirrors throughout the Internet to improve access latency for clients, and it is necessary to direct clients to the nearest mirrors based on some distance metric in order to realize the benefit of mirrors. We suggest a scalable Internet-wide architecture, called IDMaps, which m ...

Keywords: Distributed algorithms, modeling, network service, scalability

7 Papers: An analysis of using reflectors for distributed denial-of-service attacks

Vern Paxson

July 2001 **ACM SIGCOMM Computer Communication Review**, Volume 31 Issue 3

Publisher: ACM Press

Full text available: pdf(1.02 MB) Additional Information: full citation, abstract, references, citings

Attackers can render distributed denial-of-service attacks more difficult to defend against by bouncing their flooding traffic off of *reflectors*; that is, by spoofing requests from the victim to a large set of Internet servers that will in turn send their combined replies to the victim. The resulting dilution of locality in the flooding stream complicates the victim's abilities both to isolate the attack traffic in order to block it, and to use traceback techniques for locating the source ...

8 Towards an evolvable internet architecture

Sylvia Ratnasamy, Scott Shenker, Steven McCanne

August 2005 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2005 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '05**, Volume 35 Issue 4

Publisher: ACM Press

Full text available: pdf(323.40 KB) Additional Information: full citation, abstract, references, citings, index terms

There is widespread agreement on the need for architectural change in the Internet, but very few believe that current ISPs will ever effect such changes. In this paper we ask what makes an architecture evolvable, by which we mean capable of gradual change led by the incumbent providers. This involves both technical and economic issues, since ISPs have to be able, and incented, to offer new architectures. Our study suggests that, with very minor modifications, the current Internet architecture co ...

Keywords: anycast, network architecture

9 Survey of network-based defense mechanisms countering the DoS and DDoS problems

Tao Peng, Christopher Leckie, Kotagiri Ramamohanarao

April 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 1

Publisher: ACM Press

Full text available: pdf(1.17 MB) Additional Information: full citation, abstract, references, index terms

This article presents a survey of denial of service attacks and the methods that have been proposed for defense against these attacks. In this survey, we analyze the design decisions in the Internet that have created the potential for denial of service attacks. We review the state-of-art mechanisms for defending against denial of service attacks, compare the strengths and weaknesses of each proposal, and discuss potential countermeasures against each defense mechanism. We conclude by highligh ...

Keywords: Botnet, DDoS, DNS reflector attack, DoS, IP spoofing, IP traceback, IRC, Internet security, SYN flood, VoIP security, bandwidth attack, resource management

10 Report of the national workshop on internet voting: issues and research agenda
C. D. Mote
May 2002 **Proceedings of the 2002 annual national conference on Digital government research dg.o '02**
Publisher: Digital Government Research Center
Full text available: pdf(539.99 KB) Additional Information: full citation

11 Report of the national workshop on internet voting: issues and research agenda
C. D. Mote
May 2000 **Proceedings of the 2000 annual national conference on Digital government research dg.o '00**
Publisher: Digital Government Research Center
Full text available: pdf(539.99 KB) Additional Information: full citation, abstract

As use of the Internet in commerce, education and personal communication has become common, the question of Internet voting in local and national elections naturally arises. In addition to adding convenience and precision, some believe that Internet voting may reverse the historical and downward trend of voter turnout in the United States. For these reasons President Clinton issued a memorandum in December 1999 requesting that the National Science Foundation examine the feasibility of online (In ...

12 Network support for IP traceback
Stefan Savage, David Wetherall, Anna Karlin, Tom Anderson
June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3
Publisher: IEEE Press
Full text available: pdf(196.89 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a technique for tracing anonymous packet flooding attacks in the Internet back toward their source. This work is motivated by the increased frequency and sophistication of denial-of-service attacks and by the difficulty in tracing packets with incorrect, or "spoofed," source addresses. In this paper, we describe a general purpose traceback mechanism based on probabilistic packet marking in the network. Our approach allows a victim to identify the network pat ...

Keywords: computer network management, computer network security, network servers, stochastic approximation, wide-area networks

13 Practical network support for IP traceback
Stefan Savage, David Wetherall, Anna Karlin, Tom Anderson
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication SIGCOMM '00**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(167.15 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes a technique for tracing anonymous packet flooding attacks in the Internet back towards their source. This work is motivated by the increased frequency

and sophistication of denial-of-service attacks and by the difficulty in tracing packets with incorrect, or ``spoofed'', source addresses. In this paper we describe a general purpose traceback mechanism based on probabilistic packet marking in the network. Our approach allows a victim to identify the network path(s) trave ...

14 Denial-of-service: A framework for classifying denial of service attacks

Alefiya Hussain, John Heidemann, Christos Papadopoulos

August 2003 **Proceedings of the 2003 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '03**

Publisher: ACM Press

Full text available: pdf(622.14 KB) Additional Information: full citation, abstract, references, citings, index terms

Launching a denial of service (DoS) attack is trivial, but detection and response is a painfully slow and often a manual process. Automatic classification of attacks as single- or multi-source can help focus a response, but current packet-header-based approaches are susceptible to spoofing. This paper introduces a framework for classifying DoS attacks based on header content, and novel techniques such as transient ramp-up behavior and spectral analysis. Although headers are easily forged, we sho ...

Keywords: denial of service attacks, measurement, security, time series analysis

15 Rethinking the design of the Internet: the end-to-end arguments vs. the brave new world

Marjory S. Blumenthal, David D. Clark

August 2001 **ACM Transactions on Internet Technology (TOIT)**, Volume 1 Issue 1

Publisher: ACM Press

Full text available: pdf(176.33 KB) Additional Information: full citation, abstract, references, citings, index terms

This article looks at the Internet and the changing set of requirements for the Internet as it becomes more commercial, more oriented toward the consumer, and used for a wider set of purposes. We discuss a set of principles that have guided the design of the Internet, called the end-to-end arguments, and we conclude that there is a risk that the range of new requirements now emerging could have the consequence of compromising the Internet's original design principles. Were ...

Keywords: ISP, Internet, end-to-end argument

16 Addressing reality: an architectural response to real-world demands on the evolving Internet

David D. Clark, Karen Sollins, John Wroclawski, Ted Faber

August 2003 **ACM SIGCOMM Computer Communication Review , Proceedings of the ACM SIGCOMM workshop on Future directions in network architecture FDNA '03**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(361.27 KB) Additional Information: full citation, abstract, references, citings, index terms

A system as complex as the Internet can only be designed effectively if it is based on a core set of design principles, or tenets, that identify points in the architecture where there must be common understanding and agreement. The tenets of the original Internet architecture [6] arose as a response to the technical, governmental, and societal environment of internetworking's earliest days, but have remained central to the Internet as it has evolved. In light of the increasing integration of the ...

Keywords: Architectural principles, application support, architecture design, design for change, security, transparency, tussle

17 Scalable multicast based filtering and tracing framework for defeating distributed DoS attacks

Jangwon Lee, Gustavo de Veciana
January 2005 **International Journal of Network Management**, Volume 15 Issue 1
Publisher: John Wiley & Sons, Inc.

Full text available: pdf(213.52 KB) Additional Information: full citation, abstract, references, citings, index terms

In this paper we present a distributed scalable framework to support on- demand filtering and tracing services for defeating distributed denial of service attacks. Our filtering mechanism is designed to quickly identify a set of boundary filter locations so that attack packets might be dropped as close as possible to their origin(s). We argue that precisely identifying the origins of an attack is not achievable when there is only a partial deployment of tracing nodes--as is likely to be the case ...

18 Evaluation and testing of internet firewalls

Khalid Al-Tawil, Ibrahim A. Al-Kaltham
May 1999 **International Journal of Network Management**, Volume 9 Issue 3
Publisher: John Wiley & Sons, Inc.

Full text available: pdf(587.62 KB) Additional Information: full citation, abstract, references, citings, index terms

In this article we propose a testing methodology for evaluating Internet firewalls and apply it to compare two popular firewalls. Copyright © 1999 John Wiley & Sons, Ltd.

19 Editorial zone: Future internet: fundamentals and measurement

Thrasyvoulos Spyropoulos, Serge Fdida, Scott Kirkpatrick
March 2007 **ACM SIGCOMM Computer Communication Review**, Volume 37 Issue 2
Publisher: ACM Press

Full text available: pdf(136.36 KB) Additional Information: full citation, abstract, references, index terms

While the Internet is hardly "broken", it has proved unable to integrate new ideas, new architectures, and provide paths for future integration of data, voice, rich media and higher reliability. The reason is that the basic concept of the Internet as an end-to-end packet delivery service has made its middle layer, networking services through TCP/IP, untouchable. If we wish to see any disruptive enhancements to security, routing flexibility and reliability, and robust quality of service guaran ...

Keywords: COST, arcadia, federation, future internet, monitoring, testbeds, virtualization

20 Defense against spoofed IP traffic using hop-count filtering

Haining Wang, Cheng Jin, Kang G. Shin
February 2007 **IEEE/ACM Transactions on Networking (TON)**, Volume 15 Issue 1
Publisher: IEEE Press

Full text available: pdf(782.34 KB) Additional Information: full citation, abstract, references, index terms

IP spoofing has often been exploited by Distributed Denial of Service (DDoS) attacks to: 1) conceal flooding sources and dilute localities in flooding traffic, and 2) coax legitimate hosts into becoming reflectors, redirecting and amplifying flooding traffic. Thus, the ability

to filter spoofed IP packets near victim servers is essential to their own protection and prevention of becoming involuntary DoS reflectors. Although an attacker can forge any field in the IP header, he cannot falsify t ...

Keywords: DDoS attacks, IP spoofing, hop-count, host-based

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Yu Chen; Kai Hwang;
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